Research Papers Published/ Communicated

1. *A comparative study on the structural and magnetic properties of nickel ferrite nanoparticles synthesized by sol-gel and co-precipitationtechniques*, **Binu P Jacob**, Suresh Babu M, S. Singh, Krishan Lal and E.M. Mohammed, AIP Conference Proceedings, Volume 1276 (2010) 381-387.
2. *Influence of preparation method on structural and magnetic properties of nickel ferrite nanoparticles*, **Binu P Jacob**, A. Kumar, R.P. Pant, S. Singh and E.M. Mohammed, Bull. Mater. Sci. 37 No.7 (2011) 1-7.
3. *Effect of Gd^{3+} doping on the structural and magnetic properties of nanocrystalline Ni-Cd mixed ferrite*, **Binu P Jacob**, Smitha Thankachan, Sheena Xavier and E.M. Mohammed, Phys. Scr. 84 (2011) 045702-07.
4. *Dielectric behaviour and ac conductivity of Tb^{3+} doped $Ni_{0.4}Zn_{0.6}Fe_2O_4$nanoparticles*, **Binu P Jacob**, Smitha Thankachan, Sheena Xavier and E.M.Mohammed, J.Alloys Compd. (Under review).
5. *Effect of T^{b3+} substitution on structural, electrical and magnetic propertiesof nanocrystalline nickel ferrite*, **Binu P Jacob**, Smitha Thankachan, Sheena Xavier and E.M. Mohammed, Current Applied Physics (Underreview).
6. *On the structural and magnetic properties of Tb^{3+} doped Ni-Zn ferriteNanoparticles*, **Binu P Jacob**, Smitha Thankachan, Sheena Xavier and E.M. Mohammed, J. Magn. Magn. Mater. (Under review).
7. *Dielectric behaviour of Cd2+ substituted nanocrystalline nickel ferrite co-doped with gadolinium ions*, **Binu P Jacob**, Smitha Thankachan, Sheena Xavier and E.M. Mohammed, Material Letters (Communicated).
8. *A comparative study on structural, electrical and magnetic properties of magnesium ferrite nanoparticles synthesized by sol-gel and co-precipitation techniques*, E.M. Mohammed, Smitha Thankachan, **Binu PJacob,** Sheena Xavier, J. Exp. Nanosci., In Press.
9. *Dielectric studies of Magnesium ferrite nanoparticles*, Smitha Thankachan,**Binu P J**, Sheena Xavier, E. M. Mohammed, Sci. & Soc. 9(2) (2011) 163-168.
10. *Study of dielectric properties of $Co_{1-x}Zn_xFe_2O_4$ nanoparticles*, Sheena Xavier, **Binu P J**, Smitha Thankachan, E.M. Mohammed, Sci. & Soc. 9(2) (2011) 175-182.

11. *Effect of Neodymium substitution on structural characteristics of magnesium ferrite*, Smitha Thankachan, **Binu P J**, Sheena Xavier, E.M. Mohammed, AIP Conf. Proc. 1391 (2011) 89-91
12. *A new experimental setup for measuring magnetostriction*, E.M. Mohammed, Suresh Babu M, Neethal Thomas, **Binu P J**, Jl. of Instrum.Soc. of India, Vol. 39 No.1 (2009) 23-24.
13. *Thickness dependence of the properties of indium tin oxide (ito) films prepared by activated reactive evaporation,* M. D. Benoy, Suresh Babu M, **Binu P J**, E M Mohammed, B. Pradeep Brazilian Journal of Physics, vol. 39, no. 4, December, **2009**. p 629-632. ISSN 0103-9733.

Seminar/ Conference Attended/ Presented

1. *Antimicrobial activity of cobalt ferrite nanoparticles synthesized by sol-gel method*, Sheena Xavier, **Binu P J**, Smitha Thankachan, Harry Cleetus, E.M. Mohammed, International Conference NANOBIO, February 2012 Organized by Amrita Centre for Nanoscience and Nanotechnology.
2. *Effect of samarium doping on magnetic and electrical properties of nanosizecobalt ferrite*, Sheena Xavier, **Binu P J**, Smitha Thankachan, E.M. Mohammed, International conference ICNANO, December 2011 Jointly organized by University of Delhi, VBRI Press and IAAM.
3. *Structural and magnetic properties of terbium doped Ni-Cd mixed ferrite Nanoparticles*, **Binu P Jacob**, E.M. Mohammed, International conference COCHIN NANO 2011, Organized by Dept. of Physics, CUSAT, Cochin.
4. *Effect of chromium doping on structural characteristics of magnesiumferrite*, Smitha Thankachan, **Binu P J**, Sheena Xavier, Rithul Mohan T.R, E. M. Mohammed, National Seminar on Nanotechnology and its Applications, February 2011, Organized by Dept. of Physics, Maharaja's College, Ernakulam.
5. International Conference on Advanced Nanomaterials and Nanotechnology, Organized by IIT GUwahati on December 2009.
6. *Structural studies of nickel ferrite nanoparticles synthesized by sol-gel technique*, **Binu P Jacob**, Suresh Babu M, E.M. Mohammed, Internationalconference COCHIN NANO 2009, Organized by Dept. of Physics, CUSAT,